

62. (new) A method of inhibiting endothelial cell proliferation comprising administering to an endothelial cell a proliferation inhibiting amount of a kringle region fragment of a plasminogen molecule that has endothelial cell proliferation inhibiting activity *in vitro*.

63. (new) The method of claim 62 wherein the kringle region fragment comprises antiostatin.

64. (new) The method of claim 63 wherein the kringle region fragment comprises native angiostatin.

65. (new) A method of inhibiting angiogenesis in a mammal comprising administering to the mammal an angiogenesis inhibiting amount of a kringle region fragment of an angiostatin molecule that has anti-angiogenic activity *in vivo*, wherein said fragment retains anti-angiogenic activity.

66. (new) The method of claim 65 wherein the kringle region fragment comprises a fragment of native angiostatin.

67. (new) A method of inhibiting endothelial cell proliferation comprising administering to an endothelial cell an endothelial cell proliferation inhibiting amount of a kringle region fragment of an angiostatin molecule that has anti-angiogenic activity *in vitro*.

68. (new) The method of claim 67 wherein the kringle region fragment comprises a fragment of native angiostatin.

69. (new) A method of inhibiting angiogenesis in an individual comprising, increasing in the individual *in vivo* concentrations of a kringle region fragment of a plasminogen molecule to an angiogenesis inhibiting amount, wherein the kringle region fragment has anti-angiogenic activity *in vivo*.

70. (new) The method of claim 69 wherein the kringle region fragment comprises native angiostatin.